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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/558,445	11/06/2006	Pamela Whitfield	11495-1	6120	
25277 7590 11/15/2007 NATIONAL RESEARCH COUNCIL OF CANADA 1200 MONTREAL ROAD BLDG M-58, ROOM EG12 OTTAWA, ONTARIO, K1A 0R6			EXAMINER		
			MAIGA, FATOU G		
			ART UNIT	PAPER NUMBER	
CANADA	·			1795	
			MAIL DATE	DELIVERY MODE	
			MAIL DATE	DELIVERY MODE	
			11/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/558,445	WHITFIELD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fatou Gisele Maiga	1795				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE STATE OF THE MAILING DOWN	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
<u> </u>	Responsive to communication(s) filed on <u>28 November 2005</u> .					
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	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
· '	in party gadyro, 1000 o.b. 11, 10	, o o.o. 210.				
Disposition of Claims						
4) ☐ Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	,				
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kazuhara et al. JP 2001-023617.

With respect to claims 1 and 6, Kazuhara discloses a lithium metal-oxide electrode in a lithium ion cell charged to a high voltage of 4.2-4.5 volts (page 5, paragraph 0017) having a layer structure of general formula $\text{Li}_a \, \text{Mn}_y \, \text{M}_{1^-y} \, \text{O}_2$ with $0 \le x \le 1.1$, and $0.5 \le y \le 1$ (page 4, paragraph 0013), where M can be Co, Ni, Fe, or Cr (page 4, paragraph 0013-0014) elements of the first row transition metals. The manganese has the 4+ oxidation state since the general formula above is the same to that of the instant claim.

In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, Application/Control Number:

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191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed.Cir. 1990).

With respect to claims 2, 3, 4, 7 8, and 9, Kazuhara discloses that M can be Co, Ni, Fe, Cr or Al (page 3, paragraph 0013) elements of the first row transition metals.

With respect to claim 5, Kazuhara discloses that the lithium metal-oxide electrode is for use in a non-aqueous lithium cell (page 2, paragraph 0004).

With respect to claim 10, Kazuhara discloses that the non-aqueous lithium cell is operating at a voltage of 4.2-4.5 V (page 5, paragraph 0017).

In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed.Cir. 1990).

Conclusion:

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fatou Gisele Maiga whose telephone number is (571) 272-9804. The examiner can normally be reached on Monday-Friday 7:30-5:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on (571) 272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ORY PATENT EXAMINER